


INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR02/01330

A. CLASSIFICATION OF SUBJECT MATTER IPC7 G01N 21/45 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7 G01B 9/02, G01B 11/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean patents and applications for inventions since 1975, Korean utility models and applications for utility models since 1975 Japanese utility models and applications for utility models since 1975 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NPS, JPO		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,677,768 A (Hewlett-Packard Company) 14 Oct. 1997 see the abstract and figure 1	1
Y	JP 2001-156361 A (YOKOYAMASHIYUUKO) 8 Jun. 2001 see the whole document	1
A	US 5,106,191 A (Canon Kabushiki Kaisha) 21 Apr. 1992 see the whole document	1-7
A	US 5,579,109 A (Korea Research Institute of Standards and Science) 26 Nov. 1996 see the whole document	1-7
A	US 4,498,773 A (Rockwell International Corp.) 12 Feb. 1985 see the whole document	1-7
A	KR 2001-37162 A (Yun-chang, Park) 7 May 2001	1-7
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 27 MARCH 2003 (27.03.2003)		Date of mailing of the international search report 27 MARCH 2003 (27.03.2003)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer KIM, Joo Dae Telephone No. 82-42-481-5504 